

Figure 1

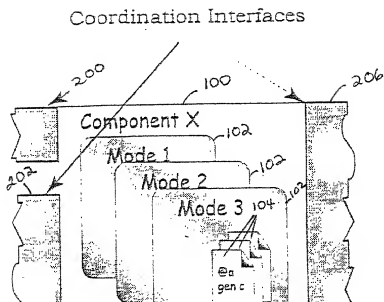


Figure 2

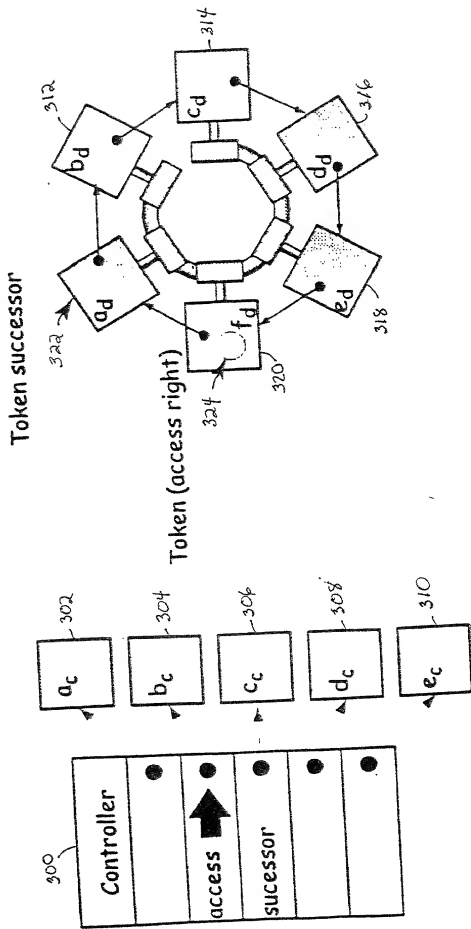


Figure 3A

Figure 3B

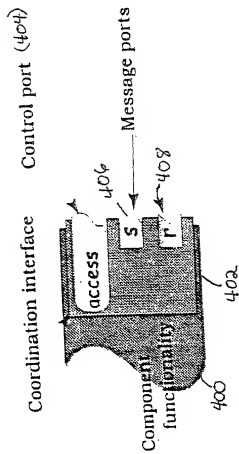


Figure 4A

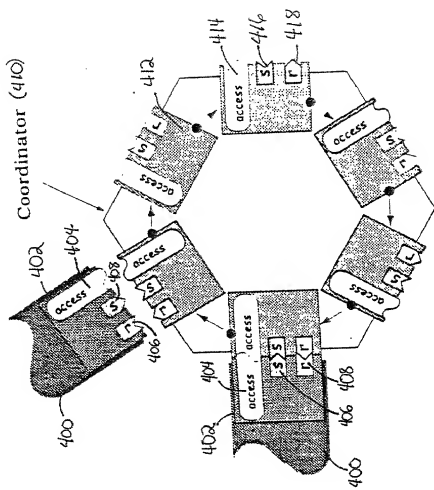


Figure 4B

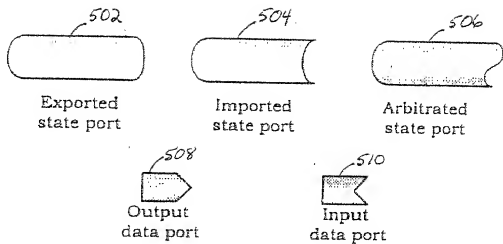


Figure 5

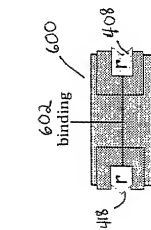


Figure 6A

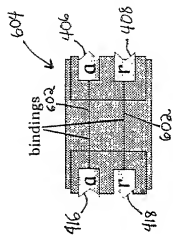


Figure 6B

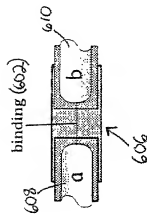


Figure 6C

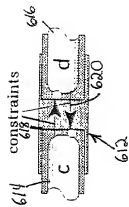


Figure 6D

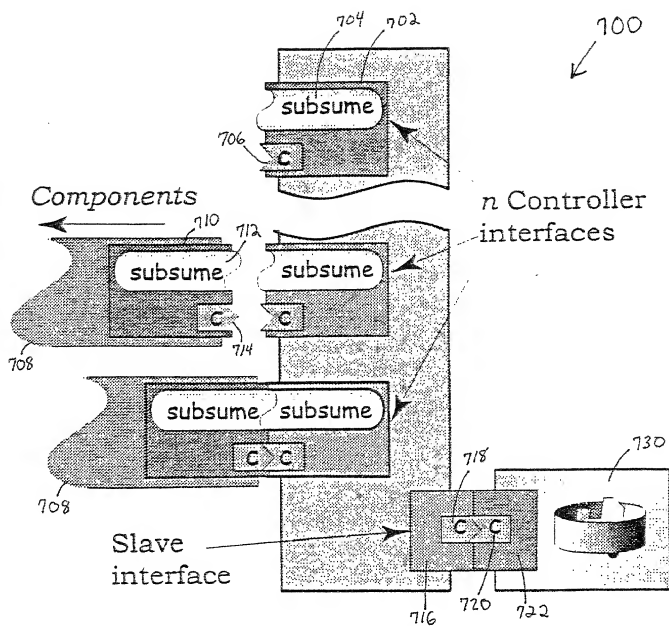


Figure 7

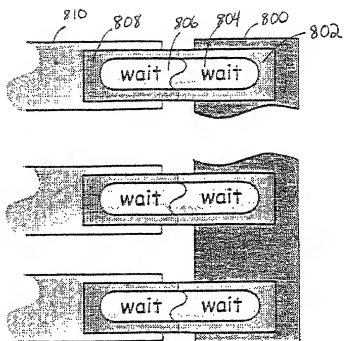


Figure 8



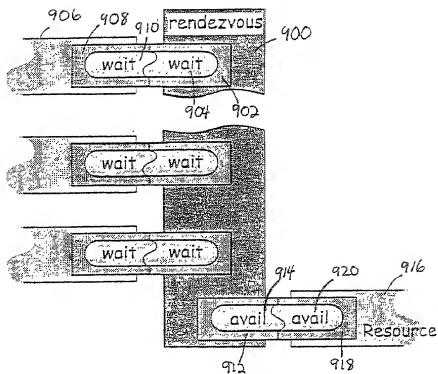


Figure 9

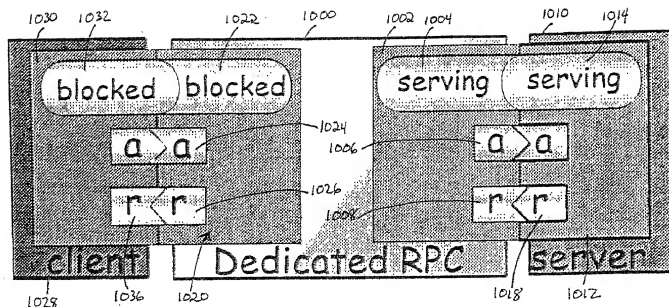


Figure 10

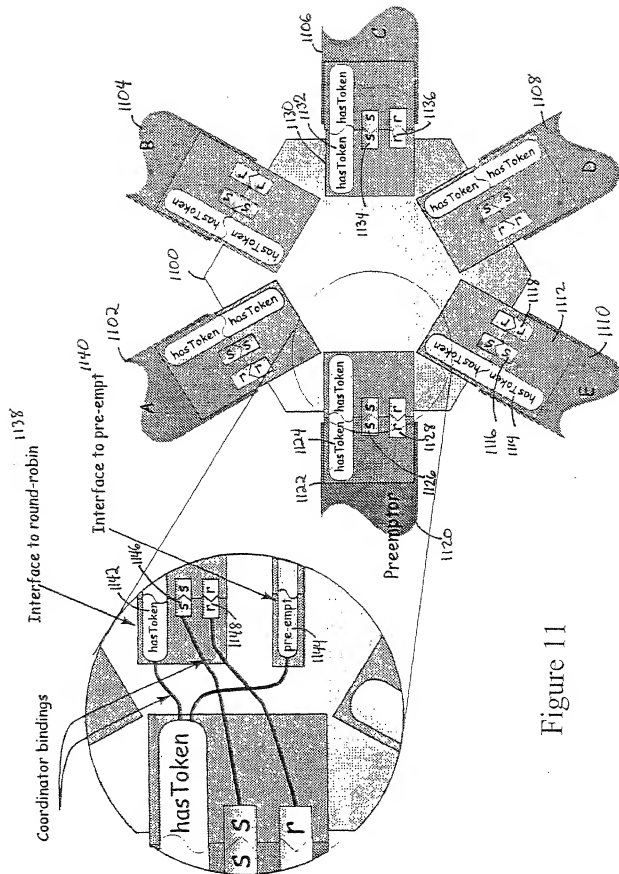


Figure 11

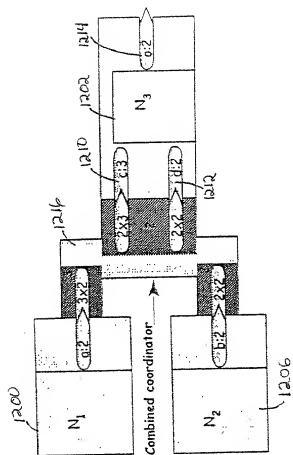


Figure 12A

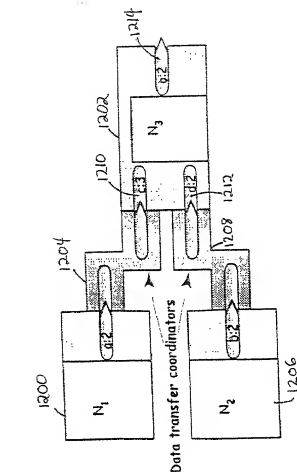


Figure 12B

09886061-052101

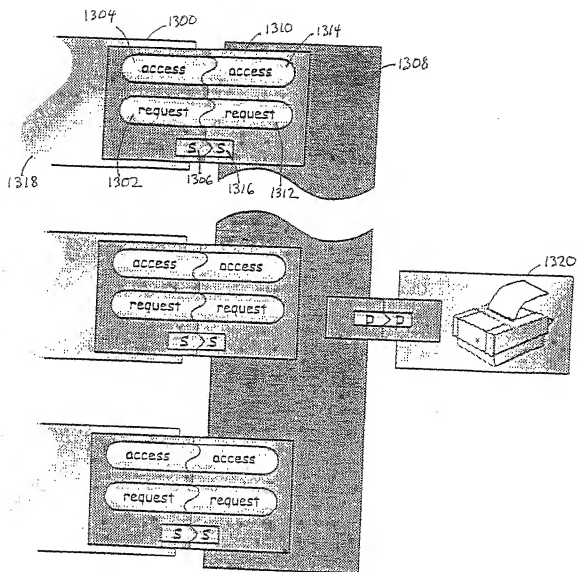


Figure 13

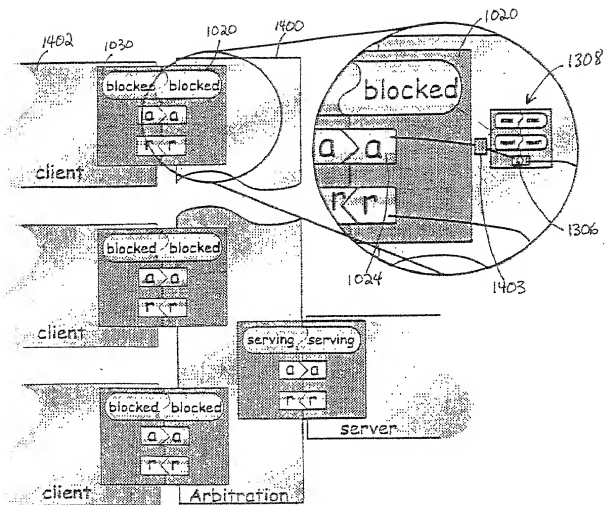


Figure 14

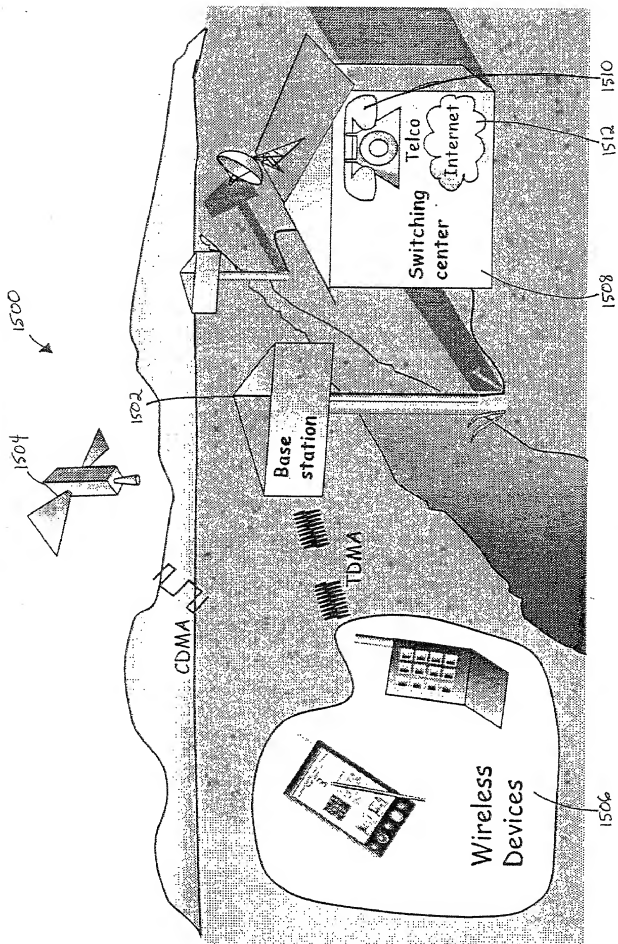


Figure 15

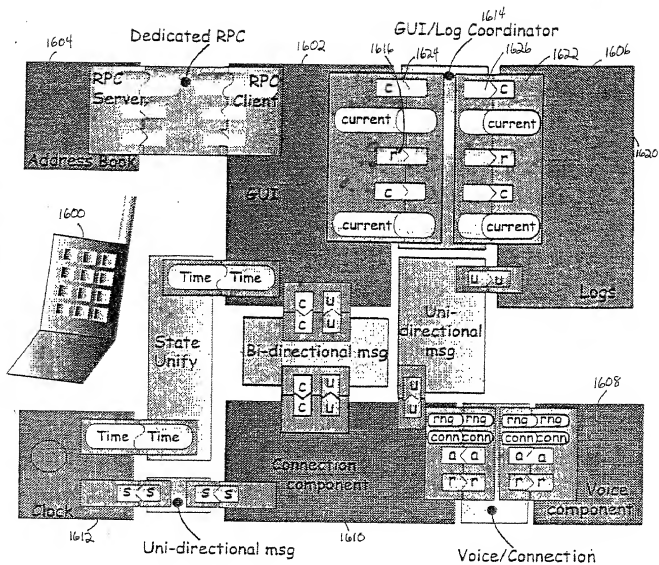


Figure 16



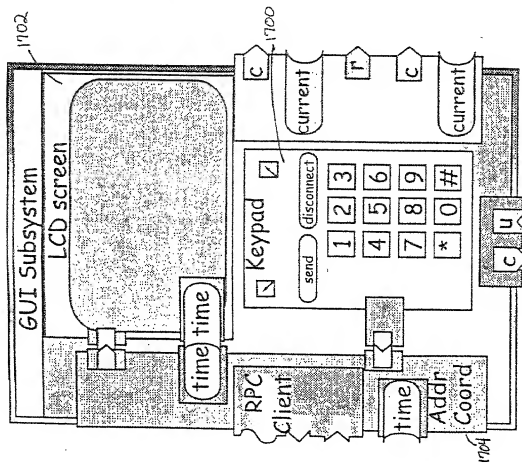


Figure 17A

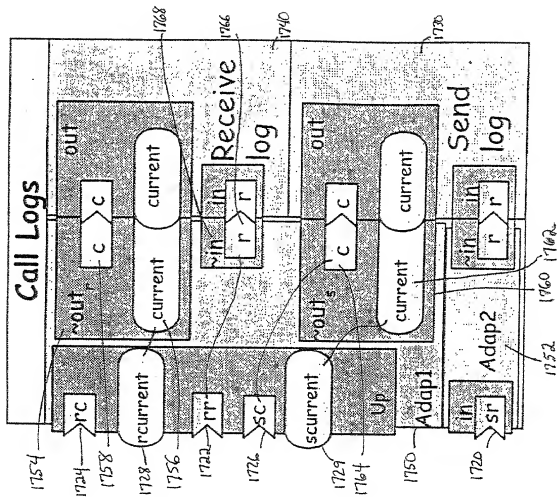


Figure 17B

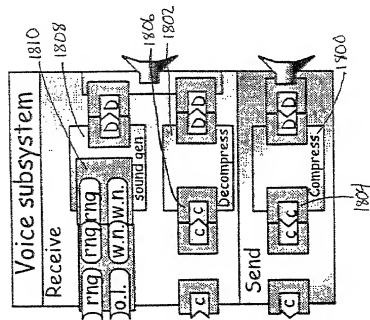


Figure 18A

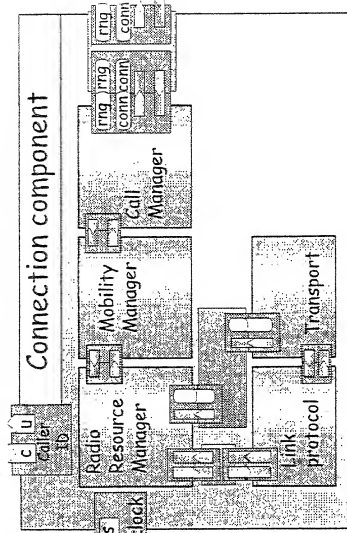


Figure 18B



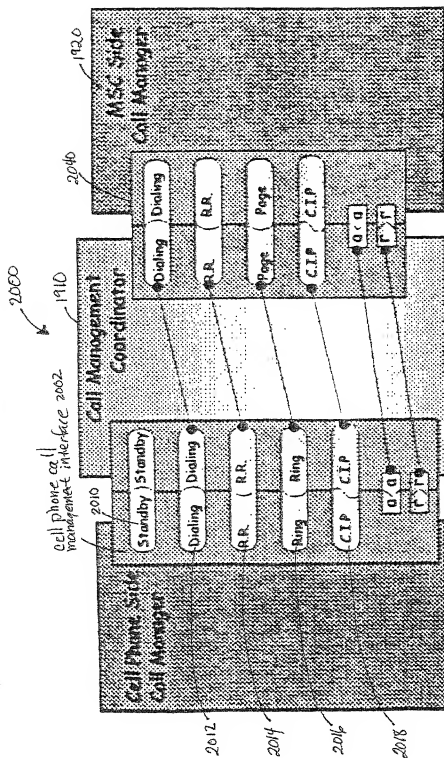


Figure 20

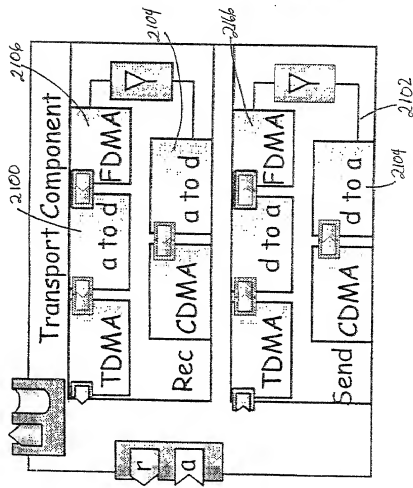


Figure 21A

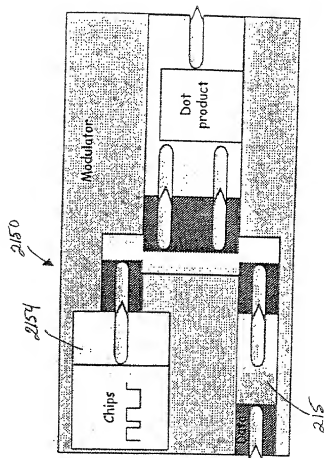


Figure 21B

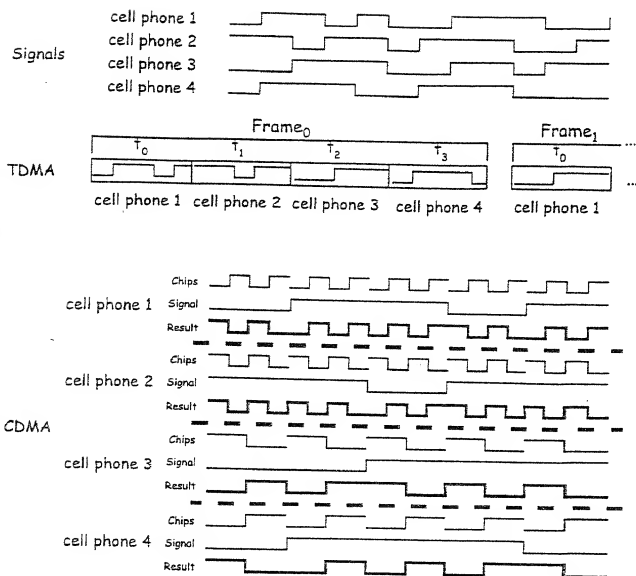


Figure 22

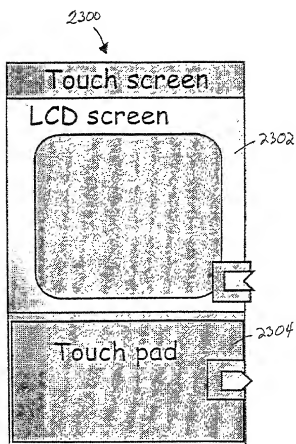


Figure 23A

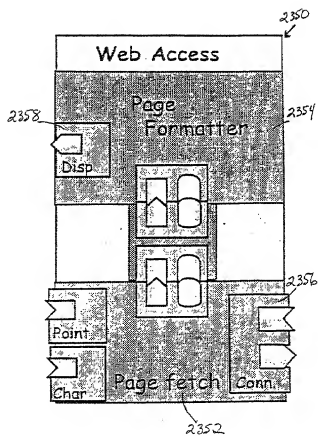


Figure 23B

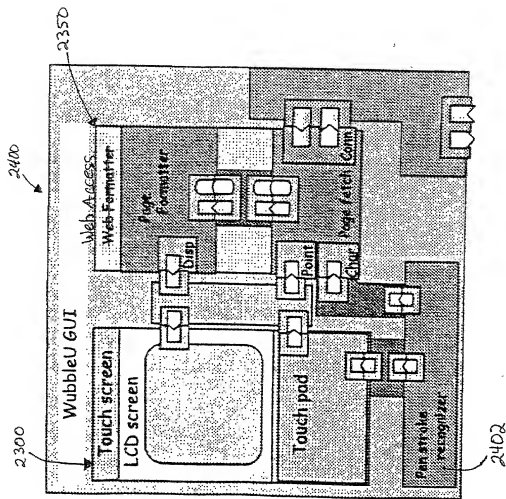


Figure 24A

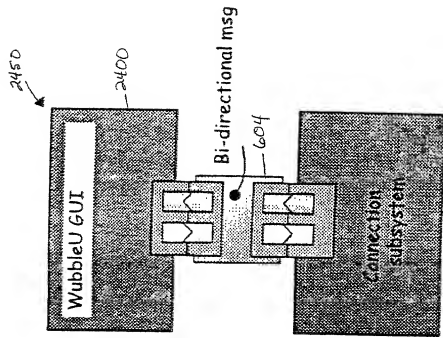


Figure 24B



09488061.062101

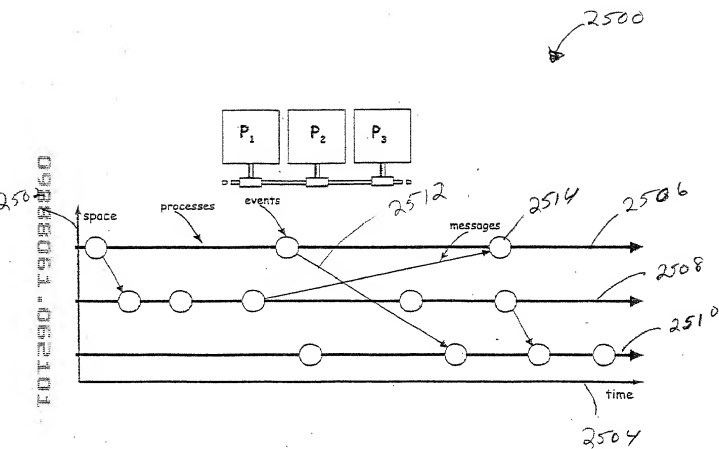


Figure 25

(prior art)

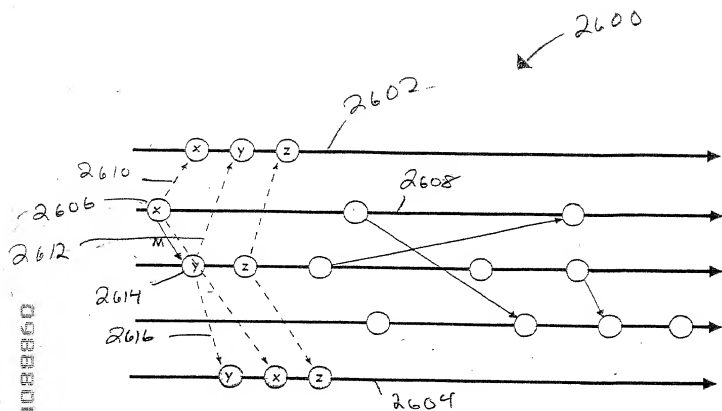


Figure 26

(prior art)

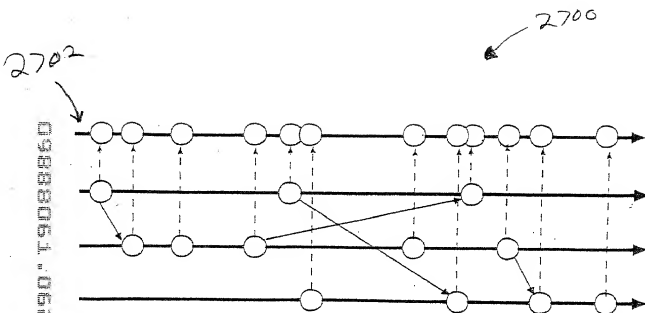


Figure 27

(prior art)

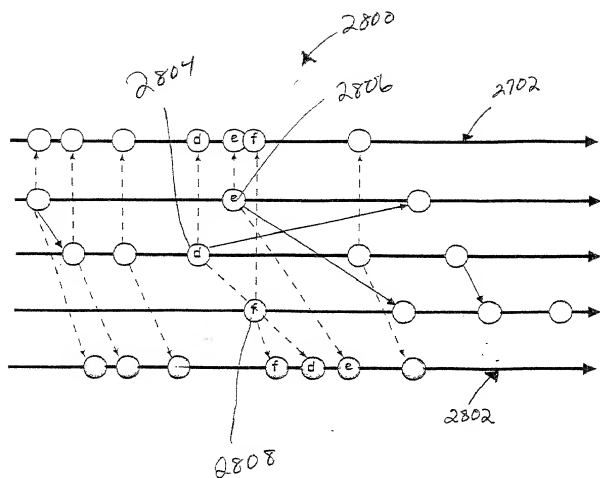


Figure 28

(prior art)

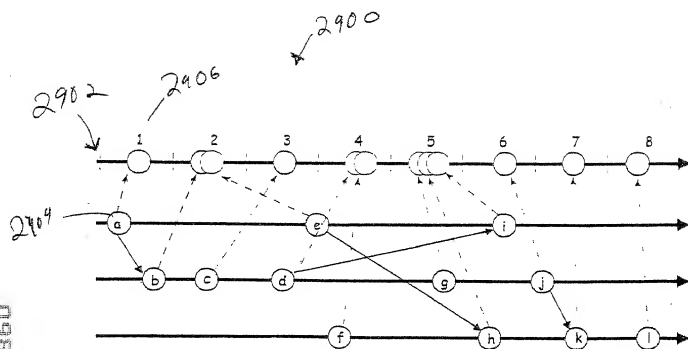


Figure 29

(prior art)

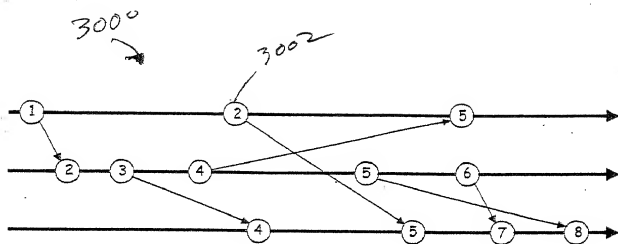


Figure 30

(prior art)

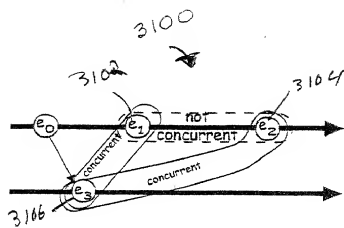


Figure 31

(prior art)

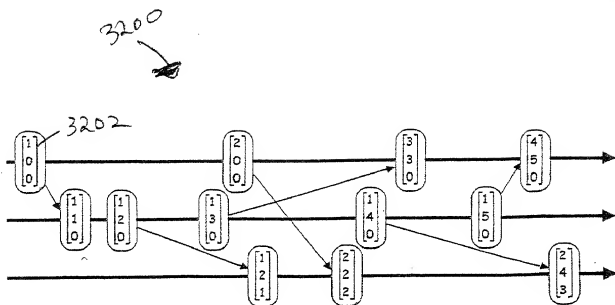


Figure 32

(prior art)



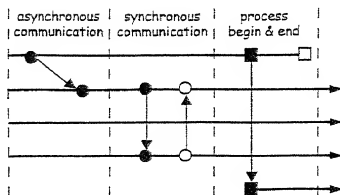


Figure 33

(prior art)

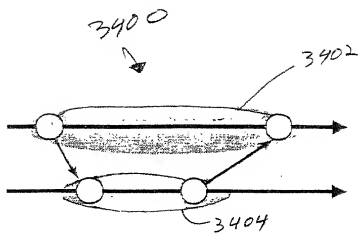


Figure 34

(prior art)

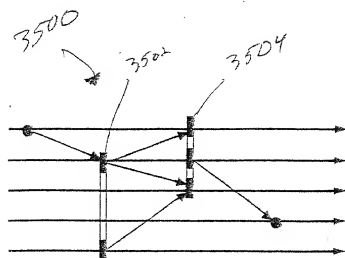


Figure 35

(prior art)

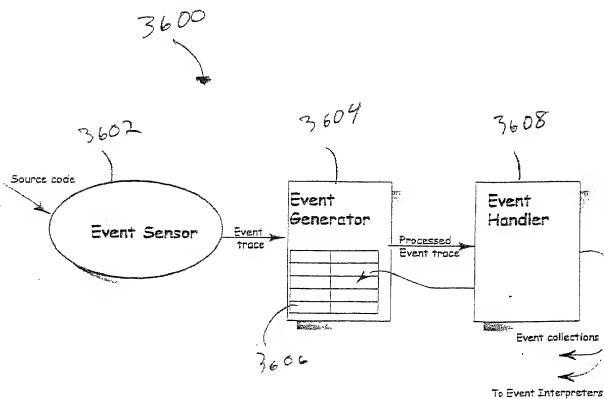


Figure 36

(prior art)

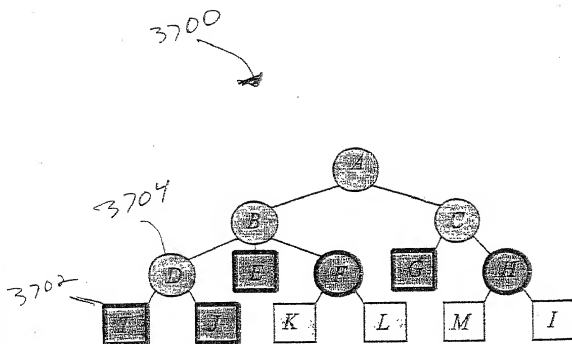


Figure 37

(prior art)

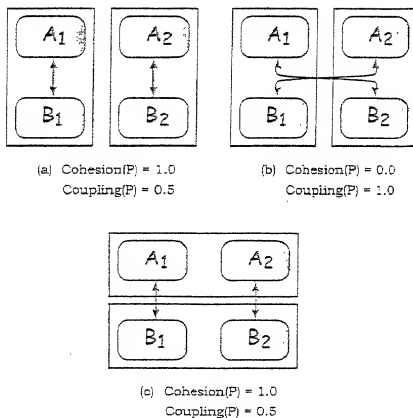


Figure 38

(prior art)

3900

first cut 3902

second cut 3904

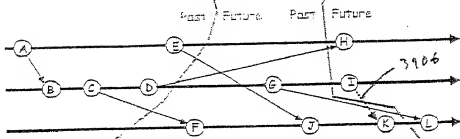


Figure 39

(prior art)

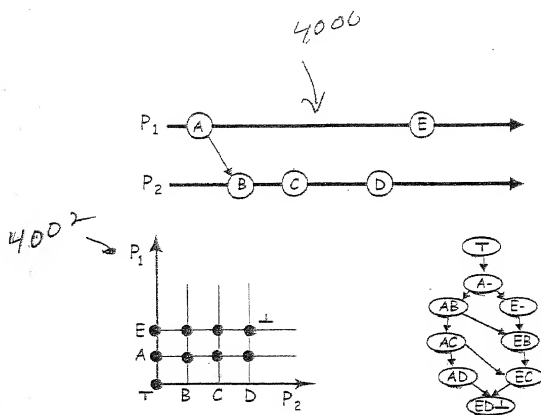


Figure 40

(prior art)



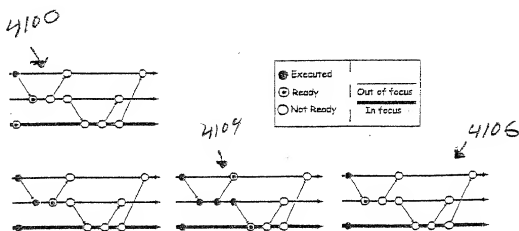


Figure 41  
(prior art)

0988061-052101

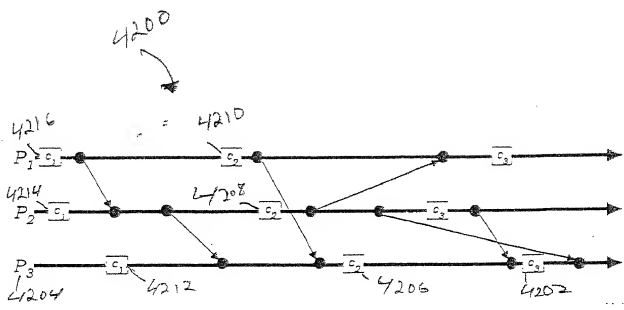


Figure 42

(prior art)

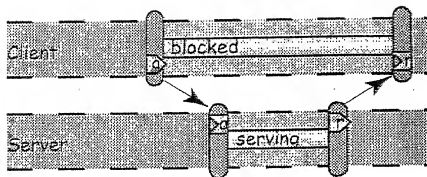
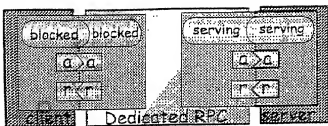


Figure 43

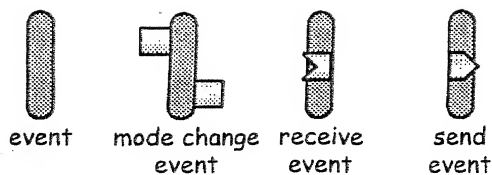


Figure 44

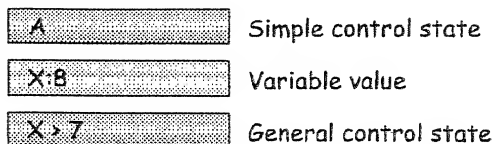


Figure 45

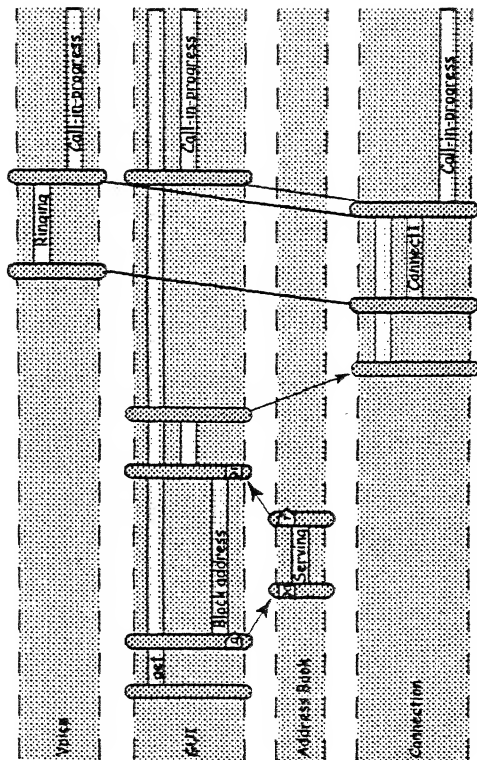
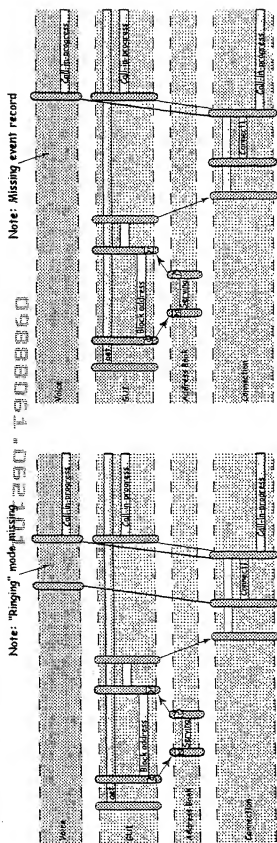
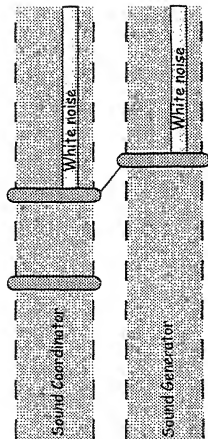
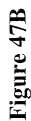


Figure 46



**Figure 47A**



**Figure 48**

```

if (resourceTaken)
    resourceTaken =
        sendlr, 'granted'
    )
else (
    sendlr, 'fail';
    ...

```

```

...
sendln, 'getResource'
while (!new(N));
...
if (p1crash;
    performance();
    sendln, 'release'
..

```

```

...
sendln, 'getResource'
while (!new(N));
c = get(N); ....
if (p1crash; grant
    g = getAddress;
    ...
    send(g...)//crash

```

Network Interface

X

Y

Figure 49

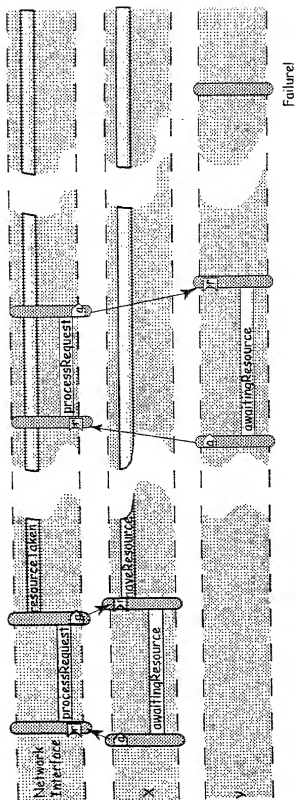


Figure 50



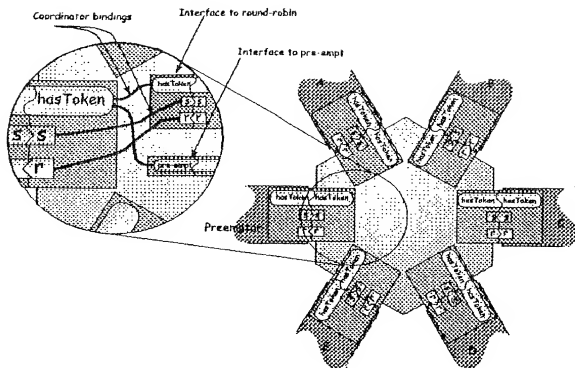


Figure 51A

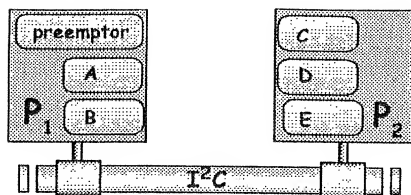
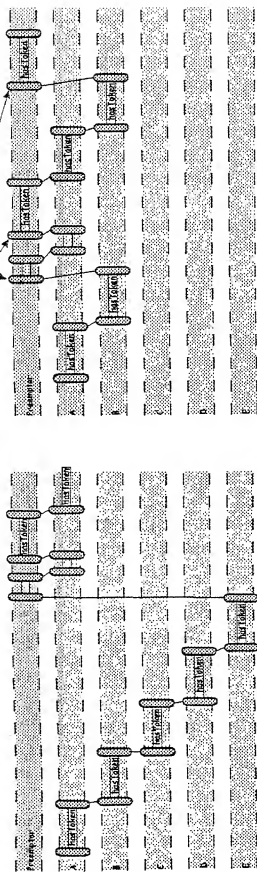
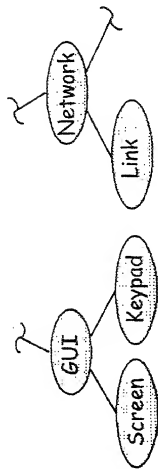


Figure 51B

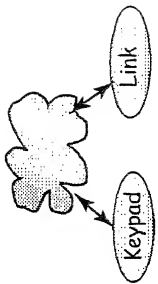
# TO THE FREQUENT PREEMPTIONS



**Figure 52A**



**Figure 53A**



**Figure 53B**

**Figure 52B**

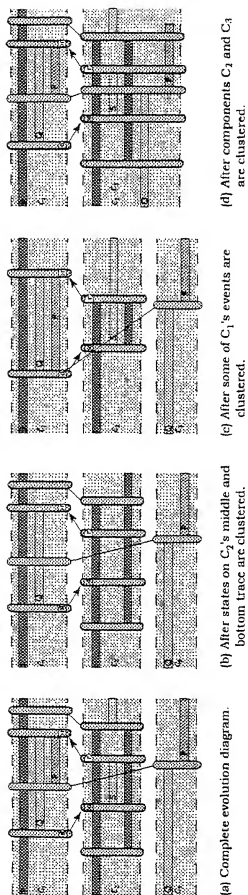


Figure 54

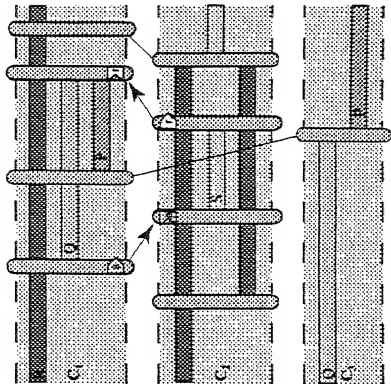


Figure 55A

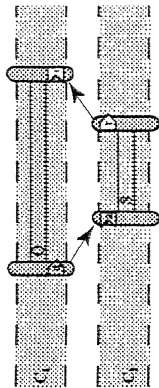


Figure 55B